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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,802	12/12/2001	Sergej B. Gashkov	L13.12-0173/00-630	9128
75	90 10/06/2004		EXAMINER	
Leo J. Peters			MALZAHN, DAVID H	
LSI LOGIC CORPORATION			ART LINIT PAPER NUMBER	

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2124 DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	- 1
Office Astrono	10/017,802	GASHKOV ET AL.	
Office Action Summary	Examiner	Art Unit	1
	David H. Malzahn	2124	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	th the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearmed patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a ren. n. a reply within the statutory minimum of thirtyeriod will apply and will expire SIX (6) MONTstatute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. (HS from the mailing date of this commonly on the mailing date.)	unication.
Status			
1) Responsive to communication(s) filed on _			
	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice und	·	•	erits is
Disposition of Claims			
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction a	ndrawn from consideration.		
Application Papers			
9)⊠ The specification is objected to by the Exar	miner.		
10)⊠ The drawing(s) filed on 12 December 2001	is/are: a)⊠ accepted or b)□	objected to by the Examine	r.
Applicant may not request that any objection to	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co		•	` '
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in Ap priority documents have been i reau (PCT Rule 17.2(a)).	oplication No received in this National Sta	ge
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Su	ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 		/Mail Date formal Patent Application (PTO-152 	2)

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The "wherein" paragraph of claim 1 is not at all clear. How can a variable be a Fibonacci series, i.e. $k = F_{-}1$? How does the Fibonacci series $F_{-}(1-1)$ different from the Fibonacci series $F_{-}(1)$? How can $F_{-}(1-1) = n$, where n is the number of bits of at least one of the inputs? How can a number minus a variable equal a Fibonacci series, i.e. $n-k=F_{-}(1-1)$? In claim 2 the "additional elements" fail to be clearly related to the previously recited structure of claim 1. Also claim 2 is mis-descriptive because the "additional elements" do not perform the functions recited in lines 5-8. Claim 4 is vague and indefinite. Where is a carry function defined in terms of a Fibonacci series? Also, in claim 4 what is meant by a minimum parameter of a Fibonacci series? Finally in claim 4 how is the carry function recursively expanded to find the minimum parameter of the Fibonacci series? Claim 14 contain deficiencies similar to claim 4. In claim 7 the phrase "negations in the carry module" lacks clear antecedent basis.

Specification

2. On page 1 a Serial No. and filing date are lacking.

Art Unit: 2124

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 703-305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David H. Malzahn Primary Exammer Art Unit 2124